Date=16/11/2020 Lecture By=Manish Mahant Subject ⇒React Events

| IN PREVIOUS LECTURE (QUICK RECAP) Date-13/11/2020 | In Today's Lecture (Overview) |
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| WHAT'S COMPOSITION IN CODE? WHY REACT COMPONENT COMPOSITION? ENTERING REACT COMPONENT COMPOSITION? GENERALIZATION VS. SPECIALIZATION FOR REACT COMPONENTS REACT COMPONENT COMPOSITION BY EXAMPLE DYNAMIC COMPONENT COMPOSITIONS IN REACT Questions For Self-Practice | React Events Adding Events React: Event Handlers Bind this Why Arrow Functions? Passing Arguments Questions For the Self-Practice |

React Events

Just like HTML, React can perform actions based on user events.

React has the same events as HTML: click, change, mouseover etc.

Adding Events

React events are written in camelCase syntax:

onClick instead of onclick.

React event handlers are written inside curly braces:

```
onClick={shoot} instead of onClick="shoot()".
```

React:

```
<button onClick={shoot}>Take the Shot!</button>
```

HTML:

```
<button onclick="shoot()">Take the Shot!</button>
```

Event Handlers

A good practice is to put the event handler as a method in the component class:

Example:

Put the shoot function inside the Football component:

Bind this

For methods in React, the this keyword should represent the component that owns the method.

That is why you should use arrow functions. With arrow functions, this will always represent the object that defined the arrow function.

Example:

Why Arrow Functions?

In class components, the this keyword is not defined by default, so with regular functions the this keyword represents the object that called the method, which can be the global window object, a HTML button, or whatever.

Read more about binding this in our React ES6 'What About this?' chapter.

If you *must* use regular functions instead of arrow functions you have to bind this to the component instance using the bind() method:

Example:

Make this available in the shoot function by binding it in the constructor function:

```
class Football extends React.Component {
   constructor(props) {
```

```
super(props)
this.shoot = this.shoot.bind(this)
}
shoot() {
    alert(this);
    /*
    Thanks to the binding in the constructor function,
    the 'this' keyword now refers to the component object
    */
}
render() {
    return (
        <button onClick={this.shoot}>Take the shot!</button>
    );
}
ReactDOM.render(<Football />, document.getElementById('root'));
```

Passing Arguments

If you want to send parameters into an event handler, you have two options:

1. Make an anonymous arrow function:

Example:

Send "Goal" as a parameter to the <a href="https://shoot.nih.google.goog

```
ReactDOM.render(<Football />, document.getElementById('root'));
```

Or:

2. Bind the event handler to this.

Note that the first argument has to be this.

Example:

Send "Goal" as a parameter to the shoot function:

Questions For the Self-Practice

CC

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Assignment

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